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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/550,220
Filing Date	October 23, 2006
First Named Inventor	Beachy and Cooper
Art Unit	1647
Examiner Name	Gamett, Daniel C.
Attorney Docket Number	JHU1980-1

Sheet 1 of 5

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	2002/0177163	11-28-2002	Beachy, Philip A.	
	AB	2004/0082036	04-29-2004	Beachy, Philip A.	
	AC	2006/0211114	09-21-2006	Beachy, Philip A.	
	AD	6,132,728	10-17-2000	Beachy, Philip A.	
	AE	6,191,137	02-20-2001	Claude Aleman	
	AF	6,194,395	02-27-2001	Thomas W. Schultz	
	AG	6,194,430	02-27-2001	James Berger Camden	
	AH	6,214,794	04-10-2001	Beachy, Philip A.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ "Number" ⁴ "Kind Code" ⁵ (if known)				
	AI	WO 95/18856	07-13-1995	Ingham, Philip, W.		
	AJ	WO 96/17924	06-13-1996	Beachy, Philip A.		

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Sheet	2	of	5	Attorney Docket Number	JHU1980-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AK	BANKER et al., "Rat Hippocampal Neurons in Dispersed Cell Culture," <i>Brain Research</i> , 126:397-425 (1977).	
	AL	BANKER et al., "Further Observations on Hippocampal Neurons in Dispersed Cell Culture," <i>J Comp Neur</i> , 187:469-494 (1979).	
	AM	BUMCROT et al., "Proteolytic Processing Yields Two Secreted Forms of Sonic Hedgehog," <i>Mol Cell Biol</i> , 15(4):2294-2303 (1995).	
	AN	CHANG et al., "Products, Genetic Linkage and Limb Patterning Activity of a Murine Hedgehog Gene," <i>Development</i> , 120:3339-3353 (1994).	
	AO	EKKER et al., "Patterning Activities of Vertebrate Hedgehog Proteins in the Developing Eye and Brain," <i>Current Biology</i> , 5(8):944-955 (1995).	
	AP	EKKER et al., "Distinct Expression and Shared Activities of Members of the Hedgehog Gene Family of <i>Xenopus laevis</i> ," <i>Development</i> , 121:2337-2347 (1995).	
	AQ	ERICSON et al., "Pax6 Controls Progenitor Cell Identity and Neuronal Fate in Response to Graded Shh Signaling," <i>Cell</i> , 90:169-180 (1997).	
	AR	FAN et al., "Long-Range Sclerotome Induction by Sonic Hedgehog: Direct Role of the Amino-Terminal Cleavage Product and Modulation by the Cyclic AMP Signaling Pathway," <i>Cell</i> , 81:457-465 (1995).	

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Sheet	3	of	5	Attorney Docket Number	JHU1980-1

AS	FIETZ et al., "Secretion of the Amino-Terminal Fragment of the Hedgehog Protein is Necessary and Sufficient for Hedgehog Signalling in Drosophila," <i>Current Biology</i> , 5(6):643-650 (1995).	
AT	FORBES et al., "Hedgehog is Required for the Proliferation and Specification of Ovarian Somatic Cells Prior to Egg Chamber Formation in Drosophila," <i>Development</i> , 122:1125-1135 (1996).	
AU	GUGLIELMO et al., "Distinct Endocytic Pathways Regulate TGF- β Receptor Signalling and Turnover," <i>Nature Cell Biology</i> , 5:410-421 (2003).	
AV	GUY, R. Kip, "Inhibition of Sonic Hedgehog Autoprocessing in Cultured Mammalian Cells by Sterol Deprivation," <i>PNAS</i> , 97(13):7307-7312 (2000).	
AW	HYNES et al., "Induction of Midbrain Dopaminergic Neurons by Sonic Hedgehog," <i>Neuron</i> , 15:35-44 (1995).	
AX	KILSDONK et al., "Cellular Cholesterol Efflux Mediated by Cyclodextrins," <i>Journal of Biological Chemistry</i> , 270(29):17250-17256 (1995).	
AY	LAI et al., "Patterning of the Neural Ectoderm of <i>Xenopus Laevis</i> by the Amino-Terminal Product of Hedgehog Autoproteolytic Cleavage," <i>Development</i> , 121:2349-2360 (1995).	
AZ	LEE et al., "Secretion and Localized Transcription Suggest a Role in Positional Signaling for Products of the Segmentation Gene Hedgehog," <i>Cell</i> , 71:33-50 (1992).	
BA	LEE et al., "Autoproteolysis in Hedgehog Protein Biogenesis," <i>Science</i> , 266:1528-1537 (1994).	

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	BB	LIEM et al., "Regulation of the Neural Patterning Activity of Sonic Hedgehog by Secreted BMP Inhibitors Expressed by Notochord and Somites," <i>Development</i> , 127:4855-4866 (2000).	
	BC	LOPEZ-MARTINEZ et al., "Limb-Patterning Activity and Restricted Posterior Localization of the Amino-Terminal Product of Sonic Hedgehog Cleavage," <i>Current Biology</i> , 5(7):791-796 (1995).	
	BD	MARTI et al., "Distribution of Sonic Hedgehog Peptides in the Developing Chick and Mouse Embryo," <i>Development</i> , 121:2537-2547 (1995).	
	BE	MARTI et al., "Requirement of 19k Form of Sonic Hedgehog for Induction of Distinct Ventral Cell Types in CAN Explants," <i>Nature</i> , 375:322-325 (1995).	
	BF	OHTANI et al., "Differential Effects of α -, β - and γ -Cyclodextrins on Human Erythrocytes," <i>Eur J Biochem</i> , 186:17-22 (1989).	
	BG	PATTEN et al., "Opponent Activities of Shh and BMP Signaling During Floor Plate Induction In Vivo," <i>Current Biology</i> , 12:47-52 (2002).	
	BH	PATTEN et al., "Opponent Activities of Shh and BMP Signaling During Floor Plate Induction In Vivo," <i>Current Biology</i> , 12:47-52 (2002). <i>S1, Supplemental Data</i>	
	BI	PORTER et al., "The Product of Hedgehog Autoproteolytic Cleavage Active in Local and Long-Range Signalling," <i>Nature</i> , 374:363-366 (1995).	
	BJ	REYNOLDS et al., "Generation of Neurons and Astrocytes from Isolated Cells of the Adult Mammalian Central Nervous System," <i>Science</i> , 255:1707-1710 (1992).	

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	BK	ROELINK et al., "Floor Plate and Motor Neuron Induction by Different Concentrations of the Amino-Terminal Cleavage Product of Sonic Hedgehog Autoproteolysis," <i>Cell</i> , 81:445-455 (1995).	
	BL	SHAMBLOTT et al., "Derivation of Pluripotent Stem Cells from Cultured Human Primordial Germ Cells," <i>PNAS</i> , 95:13726-13731 (1998).	
	BM	TABATA et al., "The Drosophila Hedgehog Gene is Expressed Specifically in Posterior Compartment Cells and is a Target of Engrailed Regulation," <i>Genes & Development</i> , 6:2635-2645 (1992).	
	BN	TANABE et al., "Induction of Motor Neurons by Sonic Hedgehog is Independent of Floor Plate Differentiation," <i>Current Biology</i> , 5(6):651-658 (1995).	
	BO	THOMSON et al., "Pluripotent Cell Lines Derived from Common Marmoset (<i>Callithrix jacchus</i>) Blastocysts," <i>Biology of Reproduction</i> , 55:254-259 (1996).	
	BP	THOMSON et al., "Embryonic Stem Cell Lines Derived from Human Blastocysts," <i>Science</i> , 282:1145-1147 (1998).	
	BQ	THOMSON et al., "Isolation of a Primate Embryonic Stem Cell Line," <i>PNAS</i> , 92:7844-7848 (1995).	
	BR	WANG et al., "Induction of Dopaminergic Neuron Phenotype in the Midbrain by Sonic Hedgehog Protein," <i>Nature Medicine</i> , 1(11):1184-1188 (1995).	
	BS	YAMADA et al., "Control of Cell Pattern in the Neural Tube: Motor Neuron Induction by Diffusible Factors from Notochord and Floor Plate," <i>Cell</i> , 73:673-686 (1993).	

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